

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/059041 A1

(51) International Patent Classification⁷:
5/50, 5/34, 5/10, C23C 28/00

C25D 3/48,

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(21) International Application Number:

PCT/US2002/041667

(22) International Filing Date:

20 December 2002 (20.12.2002)

(25) Filing Language:

English

(26) Publication Language:

English

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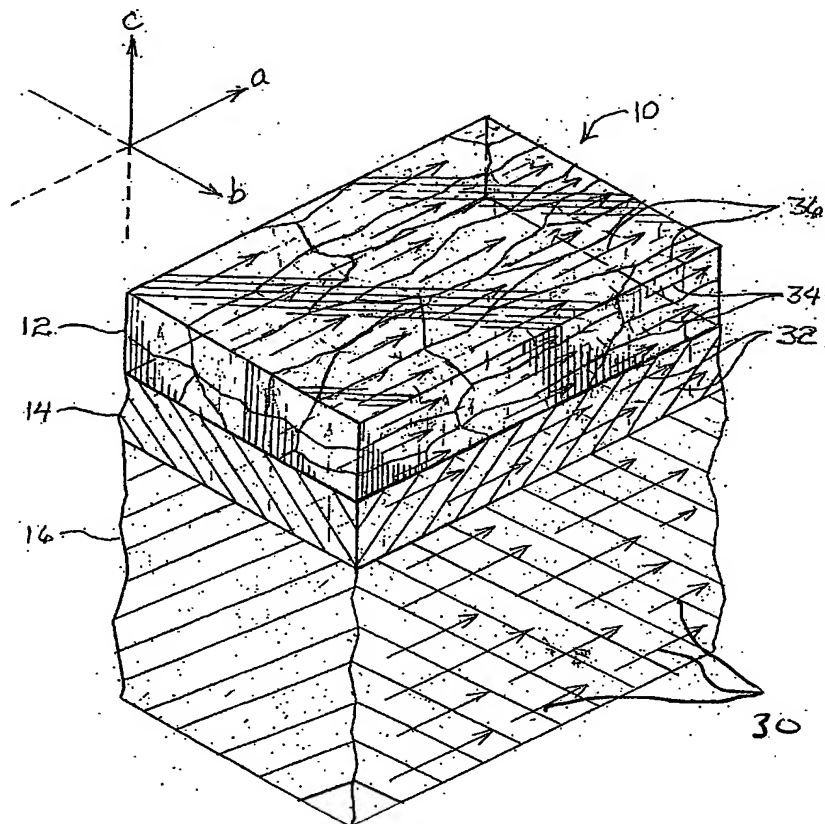
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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: ELECTRODEPOSITION OF BIAXIAL TEXTURED FILMS



(57) **Abstract:** The present invention provides a method of forming a biaxially textured gold buffer layer (14) on a substrate (16) by electrodeposition. A superconducting material (12) may be deposited onto the biaxially textured gold layer (14). The biaxial texturing in the gold layer (14) is maintained in the deposited superconductor material (12) to produce high critical current density.